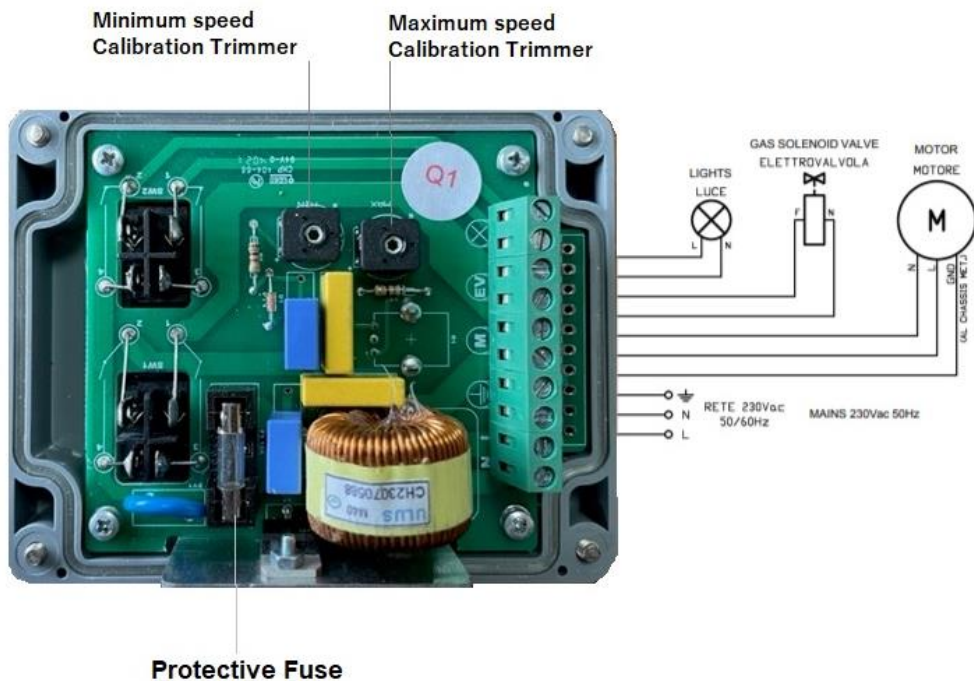


CONTROL PANEL AND CONNECTION DIAGRAM



3. DIGITAL SPEED CONTROLLER

GENERAL INFORMATION

The SAT230 controller is an advanced microprocessor-based electronic control system designed for manual or automatic speed control of a single-phase asynchronous motor (normally used for air extraction), as well as control of the lighting system and a gas solenoid valve (or another load, for example a flue-opening actuator).

Accuracy and ease of use are provided by a new-generation microprocessor and the digital controls on the front panel for operating the solenoid valve.

Figure 2 describes the SAT230 controller functions. Together with the operating instructions that follow, it is an ideal solution for many extraction applications in domestic and professional environments, including odour, smoke and steam extraction hoods, domestic hoods, and automatic intelligent air-pollution and air-purification systems.

Particular attention has been given to creating an innovative electronic controller with exceptionally low standby power consumption for this category of product.

Together with the option to automate extraction using an optional sensor connection, this makes it possible to install an advanced, responsive and efficient air-treatment system in virtually any environment.

Optional wireless remote transmitters (RADIO code FE1004) and RS-485 serial communication turn the SAT230 into an intelligent controller that can support additional functions according to customer requirements.

WARNINGS

- Before installing and switching on the product, check that the ratings and specifications in this guide are compatible with the power supply, motor, lighting system and gas solenoid valve (or other load) being used.
- Always use good-quality electrical cables with a suitable cross-section to connect the controller to the power supply and load.
- Keep cables short and prevent contact with components that may reach high temperatures.
- Install the controller/regulator in a cool, well-ventilated area, especially when current consumption is close to the stated maximum values.
- Connect the motor (or chassis) earth conductor to one earth terminal on the circuit board and connect the second terminal to the mains protective earth.
- To reduce the risk of fire, electric shock or malfunction, do not expose the unit to rain or moisture. Install it in a dry location.
- Do not install the controller/regulator where it may be exposed to condensation, steam or gas. Avoid direct sunlight and heat sources, which can reduce the unit's power-handling capacity.
- Install and use the controller/regulator only under the intended operating conditions. The manufacturer accepts no liability for misuse, use outside the intended application, or failure to follow these warnings.

The manufacturer certifies that the product is free from manufacturing defects.

The warranty period is 12 months when the product is used correctly.

The manufacturer may modify the unit or its documentation without prior notice to improve performance.

CONTROLLER INSTALLATION / INSPECTION

After removing the cover, drill the required cable-entry holes in the enclosure.

Secure the enclosure to the chosen support, then connect the circuit-board terminal block in accordance with the wiring diagram shown in Figure 3.

Note: If the motor used in the installation has a metal chassis, connect it to one of the two earth terminals on the board. Connect the second earth terminal to the mains protective earth.

After completing all required connections, switch on the controller.

The controller will remain in low-power (standby) mode until a load is activated or the configuration menu is opened.

Check that each load operates correctly using the dedicated buttons on the front panel.

Close the enclosure using the screws.

The unit is now ready for use.

